

WHAT IS CLAIMED IS:

1. An opto-electronic housing, comprising:
a submount having a plurality of conductive traces;
a can attached to said submount forming a cavity having an opening for light to pass through; and
a transparent window in said opening and attached to said can;
wherein said plurality of conductive traces extends from inside the cavity to beyond the can; and
wherein said cavity is hermetically sealed.
2. The opto-electronic housing according to claim 1, wherein said submount includes ceramic.
3. The opto-electronic housing according to claim 1, wherein said can is metallic.
4. The opto-electronic housing according to claim 1, further including a micro lens array on the transparent window, wherein said micro lens array includes individual lens elements.
5. The opto-electronic housing according to claim 1, further including an opto-electronic array in said cavity, wherein said opto-electronic array is electrically connected to said conductive traces.

6. The opto-electronic housing according to claim 5, wherein said opto-electronic array includes a vertical cavity surface emitting laser (VCSEL).
7. The opto-electronic housing according to claim 5, wherein said opto-electronic array includes a photo detector.
8. The opto-electronic housing according to claim 5, wherein said opto-electronic array includes integrated lenses.
9. The opto-electronic housing according to claim 1, wherein a plurality of heat conductive plugs pass through said submount.
10. An opto-electronic housing, comprising:
 - a submount;
 - a plurality of conductive contacts passing through said submount;
 - a can attached to said submount and forming a cavity, wherein said can includes an opening for light to pass through, and wherein said cavity extends over said conductive contacts; and
 - a transparent window over said opening and attached to said can;
 - wherein said cavity is hermetically sealed.

11. The opto-electronic housing according to claim 10, wherein said submount includes ceramic.

12. The opto-electronic housing according to claim 10, wherein said can is metallic.

13. The opto-electronic housing according to claim 10, further including a micro lens array on the transparent window, wherein said micro lens array includes individual lens elements.

14. The opto-electronic housing according to claim 10, further including an opto-electronic array in said cavity that is electrically connected to said conductive contacts.

15. The opto-electronic housing according to claim 14, wherein said opto-electronic array includes a vertical cavity surface emitting laser (VCSEL).

16. The opto-electronic housing according to claim 14, wherein said opto-electronic array includes a photo detector.

17. The opto-electronic housing according to claim 14, wherein the opto-electronic array includes integrated lenses.

18. An opto-electronic housing, comprising:

a submount holding an opto-electronic array;

a support having parallel legs and guide pins, wherein said support is attached to said submount and forming a cavity with an opening for light to pass through,

a transparent window over said opening and attached to said support, wherein a hermetic seal is formed; and

a flexible optical cable having a plurality of optical fibers and openings that align with the guide pins;

wherein the flexible optical cable mounts between said parallel legs, said guide pins fitting into said openings when the flexible optical cable is attached to said support.

19. An opto-electronic housing according to claim 18, wherein said opto-electronic array includes discrete optical elements, and wherein the optical elements optically align with said plurality of optical fibers when said flexible optical cable is attached to said support.

20. An opto-electronic housing according to claim 18, wherein the support is a metal support.